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UniGene Cluster Hs.323949 *Homo sapiens*

KAI1 Kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))

SEE ALSO

LocusLink: [3732](#)

OMIM: [600623](#)

HomoloGene: [Hs.323949](#)

SELECTED MODEL ORGANISM PROTEIN SIMILARITIES organism, protein and percent identity and length of aligned region

<i>H.sapiens:</i>	sp:P27701 - CD82_HUMAN	100 % / 266 aa
	CD82 antigen (Inducible membrane protein R2) (C33 antigen) (IA4) (Metastasis suppressor K)	(see ProtEST)
<i>M.musculus:</i>	pir:I49561 - I49561 C33/R2/IA4 - mouse	76 % / 266 aa (see ProtEST)
<i>R.norvegicus:</i>	ref:NP_113985.1 - kangai 1 (suppression of tumorigenicity 6), prostate [Rattus norvegicus]	76 % / 266 aa (see ProtEST)
<i>C.elegans:</i>	ref:NP_510445.1 - tetraspanin [Caenorhabditis elegans]	27 % / 252 aa (see ProtEST)
<i>D.melanogaster:</i>	ref:NP_523985.1 - Tetraspanin 66E [Drosophila melanogaster]	29 % / 244 aa (see ProtEST)

MAPPING INFORMATION

Chromosome: 11

OMIM Gene Map: [11p11.2](#)

UniSTS entries: [sts-X53795](#) Genomic Context: [Map View](#)

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EXPRESSION INFORMATION

Note: Highly represented (2.4 pct) in library [7914](#)
[EN0091](#)

cDNA sources: adenocarcinoma cell line ;normal epithelium
;metastatic melanoma to bowel ;lymph
;adenocarcinoma ;uterus ;rhabdomyosarcoma
;myeloid cells, 18 pooled CML cases, BCR/ABL
rearrangement positive, includes both chronic phase
and myeloid blast crisis ;epithelioid carcinoma
;colon ;Hypothalamus ;oligodendrogloma ;cord
blood ;primary B-cells from tonsils (cell line)
;marrow ;follicular carcinoma ;malignant
melanoma, metastatic to lymph node
;poorly-differentiated endometrial adenocarcinoma,
2 pooled tumors ;squamous cell carcinoma ;prostate
;uterus_tumor ;whole embryo, mainly head
;anaplastic oligodendrogloma with 1p/19q loss
;schizophrenic brain S-11 frontal lobe ;glioblastoma
with EGFR amplification ;squamous cell carcinoma
from base of tongue ;lung_normal ;tumor, 5 pooled
(see description) ;placenta ;kidney ;hypernephroma,
cell line ;nasopharyngeal carcinoma ;poorly
differentiated adenocarcinoma with signet ring cell
features ;melanocyte ;renal cell adenocarcinoma
;Purified pancreatic islet ;anaplastic
oligodendrogloma ;skin ;melanotic melanoma, high
MDR (cell line) ;hippocampus ;brain ;head_normal
;pooled pancreas and spleen ;Islets of Langerhans
;melanotic melanoma ;Ascites ;serous papillary
carcinoma, high grade, 2 pooled tumors ;myeloma
;head_neck ;leukocyte ;human skeletal muscle
;Lung Focal Fibrosis ;Fibrosarcoma ;lymphoma,
cell line ;hypernephroma ;normal pigmented retinal
epithelium ;melanotic melanoma, cell line ;adrenal
cortex carcinoma, cell line ;spleen ;amelanotic
melanoma, cell line ;astrocytoma ;lung ;breast
;ductal carcinoma, cell line ;glioblastoma with
probably TP53 mutation and without EGFR
amplification ;adenocarcinoma, cell line ;tumor
;mixed (pool of 40 RNAs) ;Alveolar Macrophage
;umbilical vein ;ovarian tumor ;stomach
;liposarcoma ;invasive tumor (cell line)

Links View in map viewer**mRNA SEQUENCES (5)**

- NM_002231 Homo sapiens **kangai 1** (suppression of tumorigenicity 6, prostate; **CD82** antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)) (KAI1), mRNA P
- BC001821 Homo sapiens, Similar to **kangai 1** (suppression of tumorigenicity 6, prostate; **CD82** antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)), clone MGC:3696 IMAGE:2959683, mRNA, complete cds PA
- BC000726 Homo sapiens, **kangai 1** (suppression of tumorigenicity 6, prostate; **CD82** antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4)), clone MGC:1713 IMAGE:2959683, mRNA, complete cds PA
- U20770 Human metastasis suppressor (KAI1) mRNA, complete cds P
- S48196 C33 antigen-type III integral membrane protein [human, T cell line MOLT-4, mRNA, 1624 nt] PA

EST SEQUENCES (10 of 229) [Show all ESTs]

- BG468969 cDNA clone adenocarcinoma cell 5' read PM
IMAGE:4645227 line
- BE872332 cDNA clone adenocarcinoma 5' read PM
IMAGE:3850411
- BG545481 cDNA clone lung 5' read PM
IMAGE:4700813
- BG545505 cDNA clone lung 5' read PM
IMAGE:4700915
- BE871165 cDNA clone adenocarcinoma 5' read PM
IMAGE:3852847
- BE870989 cDNA clone adenocarcinoma 5' read PM
IMAGE:3853226
- BG569716 cDNA clone lung 5' read PM
IMAGE:4717227
- BG740864 cDNA clone skin 5' read PM
IMAGE:4779061
- BG741307 cDNA clone skin 5' read PM
IMAGE:4779538
- BE296864 cDNA clone rhabdomyosarcoma 5' read PM
IMAGE:3532040

Key to Symbols

P Has similarity to known Proteins (after translation)

A Contains a poly-Adenylation signal

M Clone is putatively CDS-complete by MGC criteria

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LocusLink

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Search <input type="text" value="LocusLink"/>	<input checked="" type="checkbox"/>	Display <input type="text" value="Brief"/>	<input checked="" type="checkbox"/>	Organism: <input type="text" value="All"/>	<input type="checkbox"/>
Query: <input type="text"/>	<input type="button" value="Go"/> <input type="button" value="Clear"/>				

[View Hs KAI1](#) One of 1 Loci Save All Loci

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Click to Display mRNA-Genomic Alignments (spanning 54165 bps)

PUB	OMIM	ACCEVIEW	UNIGENE	BLAT	VAR	PROW	GDB
e!	UCSC	MGC					

Homo sapiens Official Gene Symbol and Name (HGNC)

KAI1: kangai 1 (suppression of tumorigenicity 6, prostate; CD82 antigen (R2 leukocyte antigen, antigen detected by monoclonal and antibody IA4))

LocusID: 3732

Overview

RefSeq Summary: This metastasis suppressor gene product is a membrane glycoprotein that is a member of the transmembrane 4 superfamily. Expression of this gene has been shown to be downregulated in tumor progression of human cancers and can be activated by p53 through a consensus binding sequence in the promoter. Its expression and that of p53 are strongly correlated, and the loss of expression of these two proteins is associated with poor survival for prostate cancer patients.

Proteome Summary: Member of the transmembrane 4 superfamily (TM4SF); functions as an activation antigen of T cells

Locus Type: gene with protein product, function known or inferred

Product: kangai 1

Alternate Symbols: R2, 4F9, C33, IA4, ST6, CD82, GR15, SAR2

Alias: CD82 antigen
R2 leukocyte antigen
suppressor of tumorigenicity 6

Function [Submit GeneRIF](#) [\(All Pubs\)](#)

Phenotype: [Prostate cancer, susceptibility to](#)